

REMARKS

This amendment is responsive to the First Office Action on the merits dated June 15, 2004. Applicants respectfully request reconsideration and allowance of claims 1-19 as set forth herein.

The Office Action

The Office Action of June 15, 2004 is the first action on the merits. In this Office Action:

Claims 20-33 stand withdrawn due to a previous restriction requirement.

Claim 1 stands rejected under 35 U.S.C. §102(b) as being anticipated by Eckblad et al. (U.S. Patent No. 6,407,922, hereinafter "Eckblad").

Claims 2-19 are indicated as containing allowable subject matter.

Applicants request acknowledgment of the Information Disclosure

Statement of July 7, 2003

Applicants note that neither the present Office Action of June 15, 2004, nor the previous Restriction Requirement of Feb. 23, 2004, acknowledge receipt and consideration of Applicants' Information Disclosure Statement (IDS) filed with the original application on July 7, 2003. The PTO receipt postcard indicating receipt of this IDS is reproduced below.

NO. 1


Inventor/Applicant: Asik et al
Title: Electronic Devices & Methods for
Attorney Docket No. 007 200136 Initials out

Pat. No. _____
Ser. No. 1
Filed September
Date July 7, 2003

☒ **PATENT/DESIGN APPLICATION**
☒ New Application Transmittal
Cont. _____ Div. _____ C-I-P _____ Provisional _____ Transmittal(s) _____
CPA Transmittal _____ PCT Request _____ Extension of Time (For _____ month(s))
Declaration/Power of Att. _____
pgs. Specification 18
pgs. Claims 6
pgs. Abstract 1
Sheet(s) of drawing(s) Figs. 1-8
formal _____ informal _____
Preliminary Amendment _____
Request and certification under 35 U.S.C. 122(b)(2)(B)(i) _____
Claim for Right of Priority _____
Appln. _____
Filed _____
Priority document(s) _____
Small Entity Statement(s) _____
Final Fee _____ Publication Fee _____
Response to missing parts _____

☒ **ASSIGNMENT**
☒ Transmittal _____ Confirmatory _____
☒ **INFORMATION DISCLOSURE STATEMENT**
PTO Form 1449 _____ Refs. _____

☐ **AMENDMENT** (Due _____)
☐ NOTICE OF APPEAL
☐ PCT Demand (Due _____)
☒ CHECK(S) In Amount \$ 024.00
☐ OTHER _____

71575 U.S. PTO
10/614497


RECEIPT IS HEREBY ACKNOWLEDGED

"DOCKETED"

Applicants respectfully request acknowledgment of receipt and consideration of Applicants' IDS of July 7, 2003 in the forthcoming Office Action.

Withdrawn claims 20-33 are canceled herein

Claims 20-33, which were withdrawn due to a previous restriction requirement, are canceled herein. However, Applicants reserve the right to the right to pursue these claims in a subsequent divisional application.

Claims 2 and 10, which are indicated as containing allowable subject matter, have been placed into independent form

Claims 2 and 10, which are indicated in the Office Action as containing allowable subject matter, have been placed into independent form. Accordingly, it is submitted that claims 2 and 10, as well as claims 3-9 and 11-19 that depend directly or indirectly therefrom, are now in condition for allowance.

Applicants respectfully request allowance of claims 2-19.

Claim 1 has been amended to more clearly distinguish over the references of record

Claim 1 has been amended herein to call for a light emitting device including a light emitting die having a light-emitting principal side and a die bonding principal side opposite the light emitting principal side, and a heat-sinking support structure on which the die bonding principal side of the light emitting die is disposed. The light-emitting principal side of the light emitting die faces away from the heat-sinking support structure to emit light. Nanotube regions containing nanotubes are arranged between the heatsinking support structure and the die bonding principal side of the light emitting die. The nanotube regions are arranged to contribute to heat transfer from the light emitting die to the heat-sinking support structure.

Eckblad does not specify a light emitting die. Moreover, the devices of Eckblad are not compatible with a light emitting die, because as shown in FIGURES 1 and 2 of Eckblad the semiconductor die (3, 3') is arranged between the PC board (9) and the heat sink (7). In these arrangements, there is no place for light produced by the light emitting die to be emitted.

In contrast, claim 1 calls for the heat sinking support structure to be disposed on a die bonding principal side of the light emitting die. The light-emitting principal side of the light emitting die is opposite the die bonding principal side, and faces away from the heat-sinking support structure to emit light. The nanotube regions are arranged between the light emitting die and the heat sinking support structure, and thus do not impede light emitted by the light-emitting principal side.

For at least these reasons, it is respectfully submitted that claim 1 as amended herein patentably distinguishes over the references of record. Applicants therefore respectfully ask for allowance of claim 1 as set forth herein.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that claims 1-19 as set forth herein are fully in condition for allowance. Accordingly, Applicants respectfully ask for allowance of claims 1-19 as set forth herein.

Respectfully submitted,
FAY, SHARPE, FAGAN,
MINNICH & McKEE, LLP



Robert M. Sieg, reg. no. 54,446
Scott A. McCollister, reg. no. 33,961
1100 Superior Avenue
Seventh Floor
Cleveland, Ohio 44114-2518
(216) 861-5582